

SEQUENCE LISTING

<110> Nardin, Elizabeth
Moreno, Alberto

<120>UNIVERSAL T-CELL EPITOPES FOR ANTI-MALARIAL VACCINES

<130> 5986/1B615-US1

<140> 09/060,450

<141> 1998-01-21

<150> 60/033,916

<151> 1997-01-21

<160> 11

<170> FastSEQ for Windows Version 3.0

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<211> 12

<212> PRT

<213> P. falciparum

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<211> 8

<212> PRT

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Asn Val Asp Pro Asn Ala Asn Pro

1 5

<210> 3

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<213> P. falciparum

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Cys Ser Val Thr

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<210> 4

<211> 16

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<213> Artificial Sequence

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<223> Poly-alanine peptide containing DR 1, 4, 7 and 13 allele specific binding motifs for use as indicator peptide.

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Gly Phe Lys Ala Ala Ala Ala Ala Ala Ala
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<210> 6

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Poly-alanine peptide containing DR 3 allele specific binding motifs for use as indicator peptides.

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Ile Ala Tyr Asp Ala Ala Ala Ala Ala
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<210> 7

<211> 10

<212> PRT

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<223> Poly-alanine peptide containing DR 8 allele specific binding motifs for use as indicator peptide.

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Gly Tyr Arg Ala Ala Ala Ala Ala Ala Leu
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<211> 13

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<223> UD4 peptide containing DR 4 allele specific binding motifs for use as indicator peptide.

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Tyr Pro Lys Phe Val Lys Gln Asn Thr Leu Lys Ala Ala
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<223> Fusion of Carboxyl Terminus of SEQ ID NO:4 to Amino Terminus of Seq ID NO: 3, designated T*T1

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Glu Tyr Leu Asn Lys Ile Gln Asn Ser Leu Ser Thr Glu Trp Ser Pro
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Cys Ser Val Thr Asp Pro Asn Ala Asn Pro Asn Val Asp Pro Asn Ala
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Asn Pro Asn Val

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<210> 10

<211> 28

<212> PRT

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<220>

<223> Fusion of Carboxyl Terminus of SEQ ID NO:4 to
Amino Terminus of Seq ID NO: 1, designated-T1B

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1

5

10

15

Asn Pro Asn Val Asp Pro Asn Ala Asn Pro Asn Val

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<212> PRT

<213> Artificial Sequence

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<223> Fusion of Amino Terminus of SEQ ID NO: 4 to

Carboxyl Terminus of SEQ ID NO: 3 with Concomitant Fusion of
Carboxyl Terminus of SEQ ID NO:4 to Amino Terminus of Seq ID NO:
1, designated T1BT*

<400> 11

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10

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20

25

30

Lys Ile Gln Asn Ser Leu Ser Thr Glu Trp Ser Pro Cys Ser Val Thr

35

40

45